# **LMA District Cover Sheet**

**Spring 2017 Levee Inspection Results** 

# Reclamation District No. 2096 Wetherbee Lake

	(March - May)	(June - August)	(September - November)	(December - February)						
† Overall LMA Rating (Fall Only)										
	** Non-receipt of Summ Reports may effect o									
† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.  FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indiction of risk.										
Comments										

#### **Unit Cover Sheet**

**Spring 2017 Levee Inspection Results** 

### Reclamation District No. 2096 Wetherbee Lake

Waterway	Bank	Unit Miles
Unit No. 01 San Joaquin River	Right	0.16

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/11/2017 - 4/11/2017			
DWR Inspector	Maksim Khashchuk			
Accompanied By	Randy Barker RD 2096			

#### Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

#### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

# Levee Inspection Report By Mile - Spring 2017

# Reclamation District No. 2096 Wetherbee Lake

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	04/11/2017 04/11/2017	Maksim Khashchuk

11100		Rating **	Λ	Issue No.		1	
LM Start		Rating	Α	issue ivo.		1	
LM End		Issue Type +	Ma	Location *		N/A	
Category	Earthen L	evee		GPS La	atituc	de/Longitude	
Category				Start		End	
Item		s & Maintena	nce		0		0
пеш	Manuals				0		0
DWR ID DWR_RD2096_01_s _ 2013_1							
		Comn	nent Cod	le			
		Inspecto	or Comm	nent			
O&M Man	O&M Manual is at the LMA's office.						

No Photos

LM Start		Rating **	Α	Issue No.		2	
LM End		Issue Type +	Ma	Location *		N/A	
Category Earthen Levee			GPS Latitude/Longitude				
Calegory				Start		End	
Item	Emergency Supplies &				0		0
пеш	Equipmer	nt		0		0	
DWR ID	DWR_RD2	096_01_s _ 201	3_2				
		Comn	nent Cod	le			

No Photos

Inspector Comment

Emergency supplies available.

LM Start		Rating **	Α	Issue No.		4	
LM End		Issue Type +	Ma	Location *		N/A	
Catagony	Earthen Levee			GPS Latitude/Longitude			
Category			Start		End		
Itom	Flood Preparedness & Training				٥		0
ltem '					٥		0
DWR ID	DWR_RD2	096_01_s _ 201	3_4				
Comment Code							

No Photos

#### Inspector Comment

LMA has a flood response plan in the office. It is recommended that the LMA and interested local volunteers take a flood fight training class in order to refresh their flood fight skills and methods.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

### Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2096 Wetherbee Lake

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	04/11/2017 04/11/2017	Maksim Khashchuk

LM Start	0.02	Rating **	A/W	Issue No.		15	
LM End	0.02	Issue Type +	Ма	Location *	N/A		
Category	Suppleme	ental		GPS Lat	itud	e/Longitude	
Calegory			Start		End		
Item	DWR UC	IP LMA Respo	nsibility	37.77385	2 °	37.773852 °	
пеш				-121.29841	3 °	-121.298413 °	
DWR ID							

#### Comment Code

#### Inspector Comment

FS\_ID:21505 DS\_ID:22737 EP\_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: - steel walkway to pump platform.- pumping plant and navigation structure area is fenced with gates at north and south

end.

FIELD\_STRUCT\_DESC: 1 of 3. Three 36-inch pipes through levee, 3.5 feet below the crown. Automatic pumping plant and concrete sump on the landward side. Vent pipes on the waterward shoulder. Concrete headwall and spillbox on the waterward side. Flap gate on the waterward end. O&M Manual. December 1968.

FS Date: 9/10/2013

LM Start	0.02	Rating **	A/W	Issue No.	15 (cont)
LM End	0.02	Issue Type +	Ma	Location *	N/A



WS view: three wooden flap gates for drainage pipes. Concrete headwall at levee slope end.

#### Photo 2 of 3: UCIP\_SP\_2017\_21505\_36448.jpg



WS view: three air vents for three drainage pipes on levee shoulder.

### Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2096 Wetherbee Lake

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	04/11/2017 04/11/2017	Maksim Khashchuk

LM Start	0.02	Rating **	A/W	Issue No.		15 (cont)
LM End	0.02	Issue Type +	Ма	Location *		N/A
Category	Suppleme	ental		GPS La	titud	e/Longitude
Calegory	gory			Start		End
Item	DWR UC	IP LMA Respo	onsibility	37.77385	2°	37.773852°
пеш				-121.29841	3°	-121.298413 °
DWR ID						

#### Comment Code

#### Inspector Comment

FS\_ID:21505 DS\_ID:22737 EP\_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: - steel walkway to pump platform.- pumping plant and navigation structure area is fenced with gates at north and south

ena.

FIELD\_STRUCT\_DESC: 1 of 3. Three 36-inch pipes through levee, 3.5 feet below the crown. Automatic pumping plant and concrete sump on the landward side. Vent pipes on the waterward shoulder. Concrete headwall and spillbox on the waterward side. Flap gate on the waterward end. O&M Manual. December 1968.

FS Date: 9/10/2013



LS view: automatic pumping plant with three pumps. Steel walkway to pump platform.

LM Start	0.02	Rating **	A/W	Issue No.		16
LM End	0.02	Issue Type +	Ma	Location *		N/A
Category	Suppleme	ental		GPS La	titud	e/Longitude
Calegory		Start		End		
Item	DWR UCI	IP LMA Respo	onsibility	37.7738	35 °	37.773835 °
пеш				-121.2984	19°	-121.298419 °
DWR ID						

### Inspector Comment

Comment Code

FS\_ID:21507 DS\_ID:22740 EP\_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: - steel walkway to pump platform.- pumping plant and navigation structure area is fenced with gates at north and south end.

FIELD\_STRUCT\_DESC: 3 of 3. Three 36-inch pipes through levee, 3.5 feet below the crown. Automatic pumping plant and concrete sump on the landward side. Vent pipes on the waterward shoulder. Concrete headwall and spillbox on the waterward side. Flap gate on the waterward end. O&M Manual, December 1968.

FS Date: 9/10/2013

# Photo 1 of 3: UCIP\_SP\_2017\_21507\_36456.jpg



WS view: three wooden flap gates for drainage pipes. Concrete headwall at levee slope end.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

### Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2096 Wetherbee Lake

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	04/11/2017 04/11/2017	Maksim Khashchuk

LM Start	0.02	Rating **	A/W	Issue No.		16 (cont)
LM End	0.02	Issue Type + Ma		Location *		N/A
Category	Suppleme	ental		GPS Lat	itud	e/Longitude
Calegory	ory			Start		End
Item	DWR UC	IP LMA Respo	nsibility	37.77383	5 °	37.773835 °
пеш				-121.29841	9°	-121.298419 °
DWR ID						

#### Comment Code

#### Inspector Comment

FS\_ID:21507 DS\_ID:22740 EP\_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: - steel walkway to pump platform.- pumping plant and navigation structure area is fenced with gates at north and south

FIELD\_STRUCT\_DESC: 3 of 3. Three 36-inch pipes through levee, 3.5 feet below the crown. Automatic pumping plant and concrete sump on the landward side. Vent pipes on the waterward shoulder. Concrete headwall and spillbox on the waterward side. Flap gate on the waterward end. O&M Manual. December 1968.

FS Date: 9/10/2013

LM Start	0.02	Rating **	A/W	Issue No.	16 (cont)
LM End	0.02	Issue Type +	Ma	Location *	N/A

# Photo 2 of 3 : UCIP\_SP\_2017\_21507\_36455.jpg



WS view: three air vents for three drainage pipes on levee shoulder.

#### Photo 3 of 3: UCIP\_SP\_2017\_21507\_36454.jpg



LS view: automatic pumping plant with three pumps. Steel walkway to pump platform.

### Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2096 Wetherbee Lake

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	04/11/2017 04/11/2017	Maksim Khashchuk

LM Start	0.03	Rating **	A/W	Issue No.		17
LM End	0.03	Issue Type +	Ма	Location *	N/A	
Category	Suppleme	ental		GPS Lat	itud	e/Longitude
Calegory				Start		End
Item	DWR UC	IP LMA Respo	nsibility	37.77381	8°	37.773818
пеш				-121.29842	3°	-121.298423
DWR ID						

#### Comment Code

#### Inspector Comment

FS\_ID:21508 DS\_ID:22739 EP\_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: - steel walkway to pump platform.- pumping plant and navigation structure area is fenced with gates at north and south

ena.

FIELD\_STRUCT\_DESC: 2 of 3. Three 36-inch pipes through levee, 3.5 feet below the crown, one concrete cutoff wall. Automatic pumping plant and concrete sump on the landward side. Vent pipes on the waterward shoulder. Concrete headwall and spillbox on the waterward side. Flap gate on the waterward end. O&M Manual, December 1968.

FS Date: 9/10/2013

LM Start	0.03	Rating **	A/W	Issue No.	17 (cont)
LM End	0.03	Issue Type +	Ma	Location *	N/A



WS view: three wooden flap gates for drainage pipes. Concrete headwall at levee slope end.

#### Photo 2 of 3: UCIP\_SP\_2017\_21508\_36460.jpg



WS view: three air vents for three drainage pipes on levee shoulder.

### Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2096 Wetherbee Lake

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	04/11/2017 04/11/2017	Maksim Khashchuk

LM Start	0.03	Rating **	A/W	Issue No.		17 (cont)	
LM End	0.03	Issue Type +	Ма	Location *		N/A	
Category	Suppleme	ental		GPS Lat	itud	e/Longitude	
Calegory	Category					End	
Item	DWR UC	IP LMA Respo	nsibility	37.77381	8 °	37.773818	٥
пеш				-121.29842	3°	-121.298423	٥
DWR ID							

# Comment Code

#### Inspector Comment

FS\_ID:21508 DS\_ID:22739 EP\_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: - steel walkway to pump platform.- pumping plant and navigation structure area is fenced with gates at north and south

FIELD\_STRUCT\_DESC: 2 of 3. Three 36-inch pipes through levee, 3.5 feet below the crown, one concrete cutoff wall. Automatic pumping plant and concrete sump on the landward side. Vent pipes on the waterward shoulder. Concrete headwall and spillbox on the waterward side. Flap gate on the waterward end. O&M Manual, December 1968.

FS Date: 9/10/2013



LS view: automatic pumping plant with three pumps. Steel walkway to pump platform.

LM Start	0.03	Rating **	М	Issue No.		18	
LM End	0.03	Issue Type +	En	Location *		N/A	
Supplemental				GPS Latitude/Longitude			
Calegory	Category					End	
Item	DWR UC	IP Field Study		37.77380	00°	37.773800°	
пеш			-121.29842	28°	-121.298428 °		
DWR ID							

### Inspector Comment

Comment Code

FS\_ID:21506 DS\_ID:24666 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - more information needs to be find from LMA/DWR Inspector for this crossing. - needs to find whether this pipe passes through the levee

FIELD\_STRUCT\_DESC: A 4-inch steel pipe through the levee and to pump platform, 3 ft. below the crown. It is a element of pumping plant.

Field study discovered utility crossing.

FS Date: 9/10/2013

#### Photo 1 of 2: UCIP\_SP\_2017\_21506\_36453.jpg



LS view: 4-inch steel pipe (right) through the levee and to pump platform.

### Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2096 Wetherbee Lake

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	04/11/2017 04/11/2017	Maksim Khashchuk

LM Start	0.03	Rating **	М	Issue No.		18 (cont)
LM End	0.03	Issue Type + En		Location *		N/A
Category	ental	GPS Latitude/Longitude				
Calegory						End
Item	DWR UC	IP Field Study		37.77380	00°	37.773800°
пеш				-121.29842	28°	-121.298428 °
DWR ID						

#### Comment Code

#### Inspector Comment

FS\_ID:21506 DS\_ID:24666 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - more information needs to be find from LMA/DWR Inspector for this crossing. - needs to find whether this pipe passes

through the levee.

FIELD\_STRUCT\_DESC: A 4-inch steel pipe through the levee and to pump platform, 3 ft. below the crown. It is a element of pumping plant.

Field study discovered utility crossing.

FS Date: 9/10/2013



LS view: closer view of 4-inch steel pipe (left) through the levee and to pump platform.

LM Start	0.05	A/W	Issue No.		8		
LM End	0.05	Issue Type +	En	Location *	LS		
Category	Earthen Levee					le/Longitude	
Calegory	Salegory					End	
Item	Encroach	ments		37.77347	79°	37.773479°	
пеш				-121.29848	36 °	-121.298486°	
DWR ID DWR_RD2096_01_f _ 2013_8							
Comment Code							

#### PO: Pole

#### Inspector Comment

Two telephone poles at landside levee toe.

### Photo 1 of 1: SP\_2017\_RD2096\_117\_8\_20170407\_00003.jpg



View of the telephone poles at the landside levee toe.

# Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2096 Wetherbee Lake

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	04/11/2017 04/11/2017	Maksim Khashchuk

LM Start	0.06	Rating **	N	Issue No.		9	
LM End	0.06	Issue Type +	Ма	Location *	LS		
Category	Catagoni Earthen Levee				tituc	le/Longitude	
Calegory		Start		End			
Item	Trim / Thi	n Trees		37.77334	18 °	37.773348°	
пеш				-121.29847	'5 °	-121.298475°	
DWR ID	DWR ID DWR_RD2096_01_s _ 2014_9					·	
Comment Code							

T5 : Tree stumps.

Inspector Comment

Pine tree stump at levee toe.



View of the tree stump at the landside levee toe.

LM Start	0.08	Rating **	М	Issue No.		13
LM End	0.08	Issue Type +	En	Location *		LS
Category	Earthen Levee				atitud	le/Longitude
Calegory				Start		End
Item	Encroach	ments		37.7730	21 °	37.773021 °
item				-121.2984	30°	-121.298430 °
DWR ID	DWR RD2	096 01 s 201	4 13			

Comment Code

RW : Retaining Wall

#### Inspector Comment

Abut 1 foot by 50 feet retaining wall at levee toe with irrigation and landscaping.



View of the retaining wall at the landside levee toe.

LM Start	0.09	Rating **	Α	Issue No.		14				
LM End	0.09	Issue Type + Ma		Location *		LS				
Category	Earthen L	Earthen Levee				evee GPS La			itud	e/Longitude
Calegory						End				
Item	Vegetatio	n		37.77289	6°	37.772896				
пеш					4 °	-121.298474				
DWR ID	DWR_RD2096_01_s _ 2017_14									

#### Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

#### Inspector Comment

Acceptable vegetation control on the levee slope.



View of the acceptable vegetation on the levee slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

### Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2096 Wetherbee Lake

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	04/11/2017 04/11/2017	Maksim Khashchuk

LM Start	0.09	Rating **	A/W	Issue No.		6
LM End	0.09	Issue Type + Ma		Location *		LS
Category	Earthen L	Earthen Levee				e/Longitude
Calegory			Start		End	
Item	Animal Co	ontrol		37.7728	91 °	37.772891 °
пеш				-121.2984	54°	-121.298454 °
DWR ID	DWR_RD2096_01_s _ 2016_6					

#### Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

### Inspector Comment

LMA has effective rodent control program. Monitor this location for possible future activity.



View of the rodent hole on the landside levee slope.

LM Start	0.12	Rating **	М	Issue No.		11
LM End	0.12	Issue Type +	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Slope Sta	bility		37.7724	34 °	37.772434°
item				-121.2984	33 °	-121.298433 °
DWR ID	DWR_RD2	096_01_s _ 201	5_11			

#### Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

#### Inspector Comment

Regrade and re-compact damaged waterside levee slope.

LM Start	0.12	Rating **	М	Issue No.	11 (cont)
LM End	0.12	Issue Type +	Ma	Location *	WS

### Photo 1 of 3: SP\_2017\_RD2096\_117\_11\_20170407\_00005.jpg



View of the waterside slope damaged by vehicle.

### Photo 2 of 3: SP\_2017\_RD2096\_117\_11\_20170407\_00006.jpg



View of the vehicle tracks eroding the waterside levee slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Levee Inspection Report By Mile - Spring 2017

# Reclamation District No. 2096 Wetherbee Lake

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River		0.16	04/11/2017 04/11/2017	Maksim Khashchuk

LM Start	0.12	Rating **	М	Issue No.	11 (cont)				
LM End	0.12	Issue Type +	Ма	Location *	WS				
Category	Earthen Levee			GPS Latitude/Longitude					
Calegory			Start		End				
Item	Slope Stability			37.772434°		37.772434°			
пеш			-121.298433 °		-121.298433 °				
DWR ID	D DWR_RD2096_01_s _ 2015_11								
Comment Code									
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.									
Inspector Comment									
Regrade and re-compact damaged waterside levee slope.									



Another view of the vehicle tracks on the waterside levee slope.